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Are Chemical Journals Too Expensive and Inaccessible? Literature Of Analytical Chemistry Zeitschrift für die Chemische Industrie Literature Of Analytical Chemistry *Advances in Combinatorial Chemistry & High Throughput Screening* **Environmental Chemistry for a Sustainable World** *Culture of Chemistry* Reviews in Computational Chemistry **Oilfield Chemistry and its Environmental Impact** Größen, Einheiten und Symbole in der Physikalischen Chemie **Frontiers of Bioorganic Chemistry and Molecular Biology Good Chemistry Reviews in Computational Chemistry Evaluating Science and Scientists** Reviews in Computational Chemistry **Chemical Modelling** *Green Chemistry* **Handbook of Quantitative Science and Technology Research** Scholarly Communication in Science and Engineering Research in Higher Education **Green Chemistry and Green Engineering Green Analytical Chemistry** *Chemical Information for Chemists* **International Benchmarking of U.S. Chemical Engineering Research Competitiveness Australian Journal of Chemistry Relevant Chemistry Education Management Principles of Sustainable Industrial Chemistry** *Seventh Conference of the International Society for Scientometrics and Informetrics* **Scientometric Indicators** Green Chemistry Metrics **Green Organic Chemistry in Lecture and Laboratory Proceedings of 10th World Congress on Medicinal Chemistry & Drug Design 2018** *Kunstformen der Natur The Future of U.S. Chemistry Research Advances in Polymer Science Current Organic Chemistry* **Proceedings of 5th Global Chemistry Congress 2017 Proceedings of European Organic Chemistry Congress 2018 Proceedings of 8th European Chemistry Congress 2018 Green Chemistry for Environmental Remediation** Medical Microbiology

Scholarly Communication in Science and Engineering Research in Higher Education Apr 13 2021 Stay on top with the latest developments in scientific and technical journal publications! In Scholarly Communication in Science and Engineering Research in Higher Education, experts in the academic community propose cost-effective alternatives to commercial publications in the face of increased journal prices and reduced budgets. This book discusses recent technological innovations that can maintain the needs of researchers who need to stay on the cutting edge of science and technology as well as scholars who must be published and peer-reviewed in order to achieve tenure and promotion. This text also examines the latest developments in information retrieval that will effectively cut time and costs for academic researchers in the library. Scholarly Communication in Science and Engineering Research in Higher Education focuses on the need for the academic community to accept new, economical methods of producing and making available publications such as peer reviews, research papers, letters, technical and experiment reports, preprints, and conference papers. This volume also emphasizes that scientists and engineers—whether graduate students or professionals—must have access to the latest relevant research in their fields and rely on libraries to provide it. Several chapters in this book examine the problem areas of information technology that will need to be fixed, such as bottlenecks to the flow of information, difficulties using information retrieval systems, and the challenges with archiving electronic journals. Using research and case studies, this book offers strategies for obtaining benefits such as: more efficient and inexpensive ways to access and navigate information more cost-effective means of authentication and quality control new initiative programs in electronic theses and dissertations to assist graduate students increased dissemination and access for conference papers at significantly less cost alternative and more effective approaches for solving underlying problems within the scholarly communication circuit of scientists activities for librarians to help expand utilization of digital technologies at the local level accurate and reliable retrieval of citation data from online sources Using Scholarly Communication in Science and Engineering Research in Higher Education, you can play an important role in improving the means and methods in this area of academics. This important guide will help librarians, science and engineering faculty and students, researchers, and publishers maintain funding, improve efficiency, and offer new methods for scientific studies.
Kunstformen der Natur Mar 01 2020 \"Die Natur erzeugt im ihrem Schoße eine unerschöpfliche Fülle von

wunderbaren Gestalten, durch deren Schönheit und Mannigfaltigkeit alle vom Menschen geschaffenen Kunstformen weitaus übertroffen werden.\" Der Naturwissenschaftler Ernst Haeckel stellt in seinem Werk ästhetische Formen aus Bereichen der Botanik und der Zoologie zusammen. Zahlreiche Schwarzweiß- und Farbabbildungen. Nachdruck der Komplettausgabe von 1904 mit 100 Tafeln und dem \"Supplement-Heft\" .

Environmental Chemistry for a Sustainable World May 27 2022 Environmental chemistry is a fast developing science aimed at deciphering fundamental mechanisms ruling the behaviour of pollutants in ecosystems. Applying this knowledge to current environmental issues leads to the remediation of environmental media, and to new, low energy, low emission, sustainable processes. Chapters review analysis and remediation of pollutants such as greenhouse gases, chiral pharmaceuticals, dyes, chlorinated organics, arsenic, toxic metals and pathogen in air, water, plant and soil. Several highlights include the overlooked impact of air pollutants from buildings for health risk, innovative remediation techniques such as bioreactors for gas treatment, electrochemical cleaning of pharmaceuticals, sequestration on Fe-Mn nodules, phytoremediation and photocatalytical inactivation of microbial pathogens. This book will be a valuable source of information for engineers and students developing novel applied techniques to monitor and clean pollutants in air, wastewater, soils and sediments.

Proceedings of 10th World Congress on Medicinal Chemistry & Drug Design 2018 Apr 01 2020 June 14-15, 2018 Barcelona,Spain Key Topics : Medicinal Chemistry, Pharmaceutical Sciences, Drug Design and Drug Development, CADD (Computer Aided Drug Design), Bioorganic and Medicinal Chemistry, Pharmacology and toxicology, Anticancer agents in Medicinal Chemistry, Analytical Chemistry, Pharmaceutical Industry, Organic Chemistry, Clinical Pharmacology, Evolution of Organic and Medicinal Chemistry in Pharma, Organic and Medicinal Chemistry Technologies for Drug Discovery, QSAR (Quantitative Structure-Activity Relationship) Fragment-Based Drug Design, Applications of Organic and Medicinal Chemistry in Drug Discovery, Market Dynamics, Conclusions and Future Trends, Medicinal Plants,

Good Chemistry Nov 20 2021 Practicing chemists face a number of ethical considerations, from issues of attribution of authorship through the potential environmental impact of a new process to the decision to work on chemicals that could be weaponised. By keeping ethical considerations in mind when working, chemists can build their own credibility, contribute to public trust in the chemical sciences and do science that benefits the world. Divided into three parts, methodological aspects, research ethics, and social and environmental implications, Good Chemistry introduces tools and concepts to help chemists recognise the ethical and social dimensions of their own work and act appropriately. Written to support chemistry students in their studies this book includes practice questions and examples of relevant situations to help students engage with the subject and prepare for their professional life in academia, industry, or public service.

Australian Journal of Chemistry Nov 08 2020

Advances in Combinatorial Chemistry & High Throughput Screening Jun 27 2022 Advances in Combinatorial Chemistry & High Throughput Screening, is an e-book series comprising updated research articles previously published in the impact factor journal, Combinatorial Chemistry & High Throughput Screening (CCHTS). A wide range of topics are covered by these articles including chemical biology, high throughput screening, combinatorial chemistry, chemoinformatics, laboratory automation and compound management. This series is, therefore, a testament to CCHTS contributions in advancing drug discovery on full throttle. This eBook series opens up a new avenue for rapid access for readers – including academic researchers and industry professionals - to a focused collection of highly regarded contributions in the field.

Größen, Einheiten und Symbole in der Physikalischen Chemie Jan 23 2022 Unentbehrlich für jeden Chemiker - die offiziellen IUPAC-Richtlinien in deutscher Sprache! Viele Fehler und Mißverständnisse könnten vermieden werden, wenn man sich an eine einheitliche Terminologie und Symbolik hielte - natürlich ist dies eine Binsenweisheit, doch wünscht sich nicht jeder, Lernender wie Lehrender, ein wenig Hilfestellung in Zweifelsfällen? Dieses Buch enthält als 'letzte Instanz' die offiziellen IUPAC-Richtlinien: Kompetent, zuverlässig und vollständig gibt es Antwort auf alle Fragen zu Begriffen, Definitionen und Schreibweisen aus dem Bereich der Physikalischen Chemie. Jeder, der ein naturwissenschaftliches Manuskript verfassen oder verstehen möchte, wird dieses Buch gerne zu Rate ziehen.

Oilfield Chemistry and its Environmental Impact Feb 21 2022 Consolidates the many different chemistries being employed to provide environmentally acceptable products through the upstream oil and gas industry This book discusses the development and application of green chemistry in the oil and gas

exploration and production industry over the last 25 years — bringing together the various chemistries that are utilised for creating suitable environmental products. Written by a highly respected consultant to the oil and gas industry — it introduces readers to the principles and development of green chemistry in general, and the regulatory framework specific to the oil and gas sector in the North Sea area and elsewhere in the world. It also explores economic drivers pertaining to the application of green chemistry in the sector. Topics covered in Oilfield Chemistry and its Environmental Impact include polymer chemistry, surfactants and amphiphiles, phosphorus chemistry, inorganic salts, low molecular weight organics, silicon chemistry and green solvents. It also looks at sustainability in an extractive industry, examining the approaches used and the other methodologies that could be applied in the development of better chemistries, along with discussions about where the application of green chemistry is leading in this industry sector. Provides the reader with a ready source of reference when considering what chemistries are appropriate for application to oilfield problems and looking for green chemistry solutions Brings together the pertinent regulations which workers in the field will find useful, alongside the chemistries which meet the regulatory requirements Written by a well-known specialist with a combined knowledge of chemistry, manufacturing procedures and environmental issues Oilfield Chemistry and its Environmental Impact is an excellent book for oil and gas industry professionals as well as scientists, academic researchers, students and policy makers.

Chemical Modelling Jul 17 2021 Chemical Modelling: Applications and Theory comprises critical literature reviews of molecular modelling, both theoretical and applied. Molecular modelling in this context refers to modelling the structure, properties and reactions of atoms, molecules & materials. Each chapter is compiled by experts in their fields and provides a selective review of recent literature. With chemical modelling covering such a wide range of subjects, this Specialist Periodical Report serves as the first port of call to any chemist, biochemist, materials scientist or molecular physicist needing to acquaint themselves of major developments in the area. Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research. Compiled by teams of leading authorities in the relevant subject areas, the series creates a unique service for the active research chemist, with regular, in-depth accounts of progress in particular fields of chemistry. Subject coverage within different volumes of a given title is similar and publication is on an annual or biennial basis. Current subject areas covered are Amino Acids, Peptides and Proteins, Carbohydrate Chemistry, Catalysis, Chemical Modelling. Applications and Theory, Electron Paramagnetic Resonance, Nuclear Magnetic Resonance, Organometallic Chemistry. Organophosphorus Chemistry, Photochemistry and Spectroscopic Properties of Inorganic and Organometallic Compounds. From time to time, the series has altered according to the fluctuating degrees of activity in the various fields, but these volumes remain a superb reference point for researchers.

Advances in Polymer Science Dec 30 2019

Proceedings of European Organic Chemistry Congress 2018 Sep 26 2019 March 01-03, 2018 London,UK. Key Topics: Elementary Concepts of Organic Chemistry, Inorganic & Organometallic Compounds, BioOrganic Chemistry, Carbohydrates and Phenols, StereoChemistry, Analytical techniques in Organic Chemistry, Carboxylic acids and its derivatives, Chemical Bonding, Cheminformatics, Green and Environmental Chemistry, Polymers and Monomers, Bio-chemistry and agricultural chemistry, Catalysis of Organic Reactions, Physical Organic Chemistry, Natural Product Chemistry, Flow Chemistry, Organic Photochemistry, Medicinal Chemistry, Electro Organic Chemistry

Green Chemistry Jun 15 2021 This book highlights the potential and scope of green chemistry for clean and sustainable development. Covering the basics, the book introduces readers to the need and the many applications and benefits and advantages of environmentally friendly chemical practice and application in industry. The book addresses such topics as ecologically safe products, catalysts and solvents, conditions needed to produce such products, types of chemical processes that are conducive to green chemistry, and much more.

Reviews in Computational Chemistry Mar 25 2022 The Reviews in Computational Chemistry series bringstogether leading authorities in the field. The chapters in thisbook series are written to teach the newcomer and update theexpert. Topics include computational chemistry, molecular modeling,computer-assisted molecular design (CAMD), quantum chemistry,molecular mechanics and dynamics, and quantitativestructure-activity relationships (QSAR). Detailed author and subject indices on each volume help thereader to quickly discover particular topics. The chapters are approached in a tutorial manner and written ina non-mathematical style allowing students and researchers toaccess computational methods outside their immediate area ofexpertise.

Green Chemistry Metrics Jun 03 2020 This contribution to SpringerBriefs in Green Chemistry outlines and discusses the four major green chemistry metrics (atom economy, reaction mass efficiency, E factor and process mass intensity), at a level that is comprehensible by upper-level undergraduates. Such students have previously received fundamental training in organic chemistry basics, and are ideally positioned to learn about green chemistry principles, of which metrics is one foundational pillar. Following this, other green metrics in common use are discussed, along with applications that allow important calculations to be easily undertaken. Finally, an introduction to metrics in the context of life cycle analyses is presented. It should be noted that no other available publication teaches green chemistry metrics in detail with an emphasis on educating undergraduates, whilst simultaneously providing a contemporary industrial flavour to the material.

International Benchmarking of U.S. Chemical Engineering Research Competitiveness Dec 10 2020 More than $400 billion worth of products rely on innovations in chemistry. Chemical engineering, as an academic discipline and profession, has enabled this achievement. In response to growing concerns about the future of the discipline, International Benchmarking of U.S. Chemical Engineering Research Competitiveness gauges the standing of the U.S. chemical engineering enterprise in the world. This in-depth benchmarking analysis is based on measures including numbers of published papers, citations, trends in degrees conferred, patent productivity, and awards. The book concludes that the United States is presently, and is expected to remain, among the world's leaders in all subareas of chemical engineering research. However, U.S. leadership in some classical and emerging subareas will be strongly challenged. This critical analysis will be of interest to practicing chemical engineers, professors and students in the discipline, economists, policy makers, major research university administrators, and executives in industries dependent upon innovations in chemistry.

Literature Of Analytical Chemistry Sep 30 2022 First Published in 1987, this book offers a full, comprehensive guide into the Literature on Analytical Chemistry. Carefully compiled and filled with a vast repertoire of journals, Papers, and References this book serves as a useful reference for Students of Chemistry, and other practitioners in their respective fields.

Seventh Conference of the International Society for Scientometrics and Informetrics Aug 06 2020

Relevant Chemistry Education Oct 08 2020 This book is aimed at chemistry teachers, teacher educators, chemistry education researchers, and all those who are interested in increasing the relevance of chemistry teaching and learning as well as students' perception of it. The book consists of 20 chapters. Each chapter focuses on a certain issue related to the relevance of chemistry education. These chapters are based on a recently suggested model of the relevance of science education, encompassing individual, societal, and vocational relevance, its present and future implications, as well as its intrinsic and extrinsic aspects. “Two highly distinguished chemical educators, Ingo Eilks and AviHofstein, have brought together 40 internationally renowned colleagues from 16 countries to offer an authoritative view of chemistry teaching today. Between them, the authors, in 20 chapters, give an exceptional description of the current state of chemical education and signpost the future in both research and in the classroom. There is special emphasis on the many attempts to enthuse students with an understanding of the central science, chemistry, which will be helped by having an appreciation of the role of the science in today’s world. Themes which transcend all education such as collaborative work, communication skills, attitudes, inquiry learning and teaching, and problem solving are covered in detail and used in the context of teaching modern chemistry. The book is divided into four parts which describe the individual, the societal, the vocational and economic, and the non-formal dimensions and the editors bring all the disparate leads into a coherent narrative, that will be highly satisfying to experienced and new researchers and to teachers with the daunting task of teaching such an intellectually demanding subject. Just a brief glance at the index and the references will convince anyone interested in chemical education that this book is well worth studying; it is scholarly and readable and has tackled the most important issues in chemical education today and in the foreseeable future.” – Professor David Waddington, Emeritus Professor in Chemistry Education, University of York, United Kingdom

Medical Microbiology Jun 23 2019 Medical Microbiology is an excellent and easy-to-use textbook which explains the roles of microorganisms in human health and illness. Written in a clear and engaging manner, the book provides an overview of pathogenic organisms, their diagnosis and treatment tools as well as the molecular mechanisms of host-pathogen interactions and antimicrobial drug resistance.

Proceedings of 8th European Chemistry Congress 2018 Aug 25 2019 June 21-23, 2018 Paris, France Key Topics : Organic Chemistry, Inorganic Chemistry, Analytical Chemistry, Green Chemistry, Physical Chemistry, Theoretical Chemistry, Environmental Chemistry, Materials Chemistry, Medicinal Chemistry,

Medical Biochemistry, Biological Chemistry, Nuclear Chemistry, Petro Chemicals, Multi-disciplinary Chemistry, Chemistry Education,

Scientometric Indicators Jul 05 2020 After a brief account of the recent trends in science indicatiors research, the authors propose a coherent system of scientometric indicators. These indicators are based on the publication performance of each country in 8 science fields and reflect the versatility of the impact of the publication activity in the country in question. The special aim of the indicator system is to characterize and compare the contribution of research-intensive, medium-sized and small countries to the world's overall scientific research activity. Indicator values for 32 such countries are reported and evaluated. Relations to other economic, social and science indicators are discussed.This book is intended both as a data source and an analytic tool for specialists engaged in science policy, science management, science indicators research, scientometrics and other areas of science as well as a tool for practising research scientists.

Reviews in Computational Chemistry Oct 20 2021 This second volume of the series 'Reviews in Computational Chemistry' explores new applications, new methodologies, and new perspectives. The topics covered include conformational analysis, protein folding, force field parameterizations, hydrogen bonding, charge distributions, electrostatic potentials, electronic spectroscopy, molecular property correlations, and the computational chemistry literature. Methodologies described include conformational search strategies, distance geometry, molecular mechanics, molecular dynamics, ab initio and semiempirical molecular orbital calculations, and quantitative structure-activity relationships (QSAR) using topological and electronic descriptors. A compendium of molecular modeling software will help users select the computational tools they need. Each chapter in 'Reviews in Computational Chemistry' serves as a brief tutorial for organic, physical, pharmaceutical, and biological chemists new to the field. Practitioners will be interested in the recent advances.

The Future of U.S. Chemistry Research Jan 29 2020 Chemistry plays a key role in conquering diseases, solving energy problems, addressing environmental problems, providing the discoveries that lead to new industries, and developing new materials and technologies for national defense and homeland security. However, the field is currently facing a crucial time of change and is struggling to position itself to meet the needs of the future as it expands beyond its traditional core toward areas related to biology, materials science, and nanotechnology. At the request of the National Science Foundation and the U.S. Department of Energy, the National Research Council conducted an in-depth benchmarking analysis to gauge the current standing of the U.S. chemistry field in the world. The Future of U.S. Chemistry Research: Benchmarks and Challenges highlights the main findings of the benchmarking exercise.

Reviews in Computational Chemistry Aug 18 2021 A select group of scientists from around the world join in this volume to create unique chapters aimed at both the novice molecular modeler and the expert computational chemist. Chapter 1 shows how molecular modeling of peptidomimetics plays a key role in drug discovery. Specific examples of successful computer-aided drug design are spelled out. Chapter 2 is a definitive exposition on thermodynamic perturbation and thermodynamic integration approaches in molecular dynamics simulations. Three additional chapters elucidate molecular modeling of carbohydrates, the best empirical force fields to use in molecular mechanics, and molecular shape as a useful quantitative descriptor.

Green Chemistry for Environmental Remediation Jul 25 2019 The book presents an in depth review from eminent industry practitioners and researchers of the emerging green face of multidimensional environmental chemistry. Topics such as green chemistry in industry, green energy: solar photons to fuels, green nanotechnology and sustainability, and green chemistry modeling address a wide array of iusses encouraging the use of economical ecofriendly benign technologies, which not only improve the yield, but also illustrates the concept of zero waste, a subject of interest to both chemists and environmentalists alike.

Literature Of Analytical Chemistry Jul 29 2022 First Published in 1987, this book offers a full, comprehensive guide into the Literature on Analytical Chemistry. Carefully compiled and filled with a vast repertoire of journals, Papers, and References this book serves as a useful reference for Students of Chemistry, and other practitioners in their respective fields.

Current Organic Chemistry Nov 28 2019

Chemical Information for Chemists Jan 11 2021 While it is not difficult to find data in many cases, what advice can you get on the quality of the data retrieved? Chemical Information for Chemists could help with this problem and more. This book is a chemical information book aimed specifically at practicing chemists. Written and edited by experts in the field, it is ideal for chemists who lack a chemical information

professional able to teach basic and intermediate techniques in retrieving and evaluating information using the unique entry points of the chemical literature, including structure, formula, substructure, and sequence. Aimed at students on undergraduate and graduate courses, it could also be a useful guide to new information specialists who are facing the challenging diversity of chemical literature.

Are Chemical Journals Too Expensive and Inaccessible? Nov 01 2022 On October 25-26, 2005, the Chemical Sciences Roundtable held a workshop to explore issues involving those who use and contribute to chemical literature, as well as those who publish and disseminate chemical journals. As a follow-up to the workshop, a summary was written to capture the presentations and discussions that occurred during the workshop. As a forum to discuss chemistry journals within the larger context of scientific, technical and medical journal publishing, the workshop covered whether chemists and chemical engineers have unique journal needs and, if so, whether these needs are being met in the current journal publishing environment. Workshop participants also tackled how open access publishing might be applied to the chemical literature, such as to provide authors more freedom to distribute their articles after publication and allowing free access to chemical literature archives.

Proceedings of 5th Global Chemistry Congress 2017 Oct 27 2019 September 04-06, 2017 London, UK Key Topics : Organic Chemistry, Medicinal Chemistry, Analytical Chemistry, Green chemistry And Renewable Resources, Natural Product and Biodiversity, Agricultural and Food Chemistry, Physical and Theoretical Chemistry, Marine and Geo Chemistry, Inorganic Chemistry, Environmental Chemistry, Forensic Chemistry, Nanoscience and Technology, Industrial and Engineering Chemistry, Polymer Chemistry, Material Chemistry,

Green Analytical Chemistry Feb 09 2021 Chemical analysis requires solvents, reagents and energy and generates waste. The main goal of green analytical chemistry is to avoid or reduce the undesirable environmental side effects of chemical analysis, while preserving the classic analytical parameters of accuracy, sensitivity, selectivity and precision. This book portrays the current and changing situation concerning adoption of the principles of green chemistry as applied to analysis. It begins by looking at the advantages of and problems associated with on-site analysis and how analytical techniques can lead to increased productivity, efficiency and accuracy, and thereby reduce the consumption of materials. It then focuses on sample preparation techniques minimising solvent consumption or using alternative solvents, concepts and methods of improving the 'greenness' of instrumental analysis where miniaturization is an important part, separation methods from the perspective of green analytical chemistry and chemometrics approaches, which can reduce or can even remove the need for conventional steps in chemical analysis. Aimed at graduates and novices just entering the field, managers of analytical research laboratories, teachers of analytical chemistry and green public policy makers, this title will be a useful addition to any analytical scientist's library.

Handbook of Quantitative Science and Technology Research May 15 2021 This handbook offers a state-of-the-art overview of quantitative science and technology research. It focuses on the development and application of indicators derived from data on scientific or scholarly publications and patents. It comprises 34 chapters written by leading specialists in the various sub-domains. These chapters deal with theoretical and methodological issues, illustrate applications, and highlight their policy context and relevance. Authors present a survey of the research topics they address, and show their most recent achievements. The 34 chapters are arranged into 5 parts: Disciplinary Approaches; General Methodology; The Science System; The Technology System; and The Science–Technology Interface. The Editor's Introduction provides a further specification of the handbook's scope and of the main topics addressed in its chapters. This handbook aims at four distinct groups of readers: – practitioners in the field of science and technology studies; – research students in this field; – scientists, scholars and technicians who are interested in a systematic, thorough analysis of their activities; – policy makers and administrators who wish to be informed about the potentialities and limitations of the various approaches and about their results.

Green Chemistry and Green Engineering Mar 13 2021 This interdisciplinary and accessible new volume presents a broad range of application-based green chemistry and engineering research. The book familiarizes readers with the integration of tools and spell out the approaches for green engineering of new processes as well as improving the environmental risks of existing processes. The expert authors discuss the myriad opportunities and the challenges facing green chemistry today in both its theoretical and practical implementation. The book expands upon green chemistry concepts with the latest research and new and innovative applications, providing both the breadth and depth researchers need. Topics include solar energy, electrospinning of bio-based polymeric nanofibers, biotransformation, engineered

nanomaterials in environmental protection, and much more.

Management Principles of Sustainable Industrial Chemistry Sep 06 2020 Approaching sustainability from the perspectives of engineering and multiple scientific disciplines, this book incorporates the concepts of intergenerational equity and ecological capabilities, while promoting scientific rigor for the analysis of sustainability and the use of appropriate metrics to determine the comparative merits of alternatives. The chapters are organized around the key non-technological themes of sustainable industrial chemistry and provide an overview of the managerial principles to enhance sustainability in the chemicals sector. The book strives to provide an intellectual forum and stimulus for defining the roles chemical engineers can play in achieving sustainable development. Suitable for industry and graduate education, this is the one-stop guide to greener, cleaner, economically viable and more efficient chemical industries.

Evaluating Science and Scientists Sep 18 2021 The shift to a market economy in post-communist Eastern Europe has had a profound impact on science and scientists across the region, leading to reforms in research management practices and to drastic cuts in funding levels everywhere. Many countries are moving to a system of competitive research grants awarded on the basis of peer review. The introduction of peer review is not simply a technical matter. It signifies a fundamental change in the social structure of science, enhancing profession-al autonomy and giving working scientists a voice in the allocation of resources. This book combines first-hand accounts of the reform process with analyses of the strengths and weaknesses of both peer review and quantitative indicators.

Frontiers of Bioorganic Chemistry and Molecular Biology Dec 22 2021 Frontiers of Bioorganic Chemistry and Molecular Biology covers the proceedings of the International Symposium on Frontiers of Bioorganic Chemistry and Molecular Biology, held in Moscow and Tashkent, USSR on September 25-October 2, 1978. This symposium is devoted to a discussion of the physico-chemical basis of life processes. This book contains 56 chapters, and reflects the results in the study of peptides and proteins, nucleic acids, polysaccharides, and other biopolymers. Other chapters deal with the study of low molecular regulators, including steroids, alkaloids, and antibiotics. This book also includes discussion of the achievements in the study of genetic structures and of cellular protein synthesizing systems of the molecular basis of enzymic catalysis and of bioenergetic processes. This book will be of value to biochemists and molecular biologists.

Zeitschrift für die Chemische Industrie Aug 30 2022

Culture of Chemistry Apr 25 2022 Includes specially selected articles that previously appeared in The Chemical Intelligencer magazine published (1995-2000). Excerpts of these Editor's choice chapters chronicle the culture and history of chemistry, featuring great chemists and discoverers. Contributors from among the best-known authors of the chemistry community, including numerous Nobel laureates. Features behind the scenes stories about pivotal discoveries, intricacies of laboratory life and interactions among scientists, favorite recipes of renowned researchers, life histories and anecdotes. Chapters detail the human side of science but also present scientific information communicated in an easy-to-perceive and entertaining way. This unique book is not only aimed at chemists but individuals who are interested in the cultural aspects of our science.

Green Organic Chemistry in Lecture and Laboratory May 03 2020 The last decade has seen a huge interest in green organic chemistry, particularly as chemical educators look to "green" their undergraduate curricula. Detailing published laboratory experiments and proven case studies, this book discusses concrete examples of green organic chemistry teaching approaches from both lecture/seminar and practical perspe